PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file refe PA136158/PCT	FOR FURTHER A	CTION S	ee Form PCT/PEA/416
nternational application No.	International filing date 13.01.2005	(day/month/year)	Priority date (day/month/year) 15.01.2004
	ation (IPC) or national classification and	IPC	
Applicant ELEMENT SIX LIMITE	D et al.		
This report is the in Authority under Art	ternational preliminary examination icle 35 and transmitted to the application	report, established by this ant according to Article 36	International Preliminary Examining .
Authority direct run	sists of a total of 4 sheets, including	this cover sheet.	
a This sense is also	accompanied by ANNEXES, compri	sing:	
		reall a total of Sheets, a	s follows:
☐ sheets and/or s	of the description, claims and/or dra sheets containing rectifications author	wings which have been an orized by this Authority (se	ee Rule 70.16 and Section 607 of the
sheets	which supersede earlier sheets, but the disclosure in the international a	ppilodion do mos, as	iders contain an amendment that goes cated in item 4 of Box No. I and the
b. (sent to the sequence I Relating to	International Bureau only) a total of isting and/or tables related thereto, i Sequence Listing (see Section 802	f (indicate type and number in electronic form only, as it of the Administrative Instr	er of electronic carrier(s)) , containing a indicated in the Supplemental Box uctions).
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This report contain	ns indications relating to the following	g nems.	
⊠ Box No. I	Basis of the report		
☐ Box No. III	Priority Non-establishment of opinion with r	egard to novelty, inventive	e step and industrial applicability
	of invention		
⊠ Box No. V	Reasoned statement under Article applicability; citations and explanations	35(2) with regard to novelt ions supporting such state	y, inventive step or industrial ment
☐ Box No. VI	Certain documents cited		
☐ Box No. VII	Certain defects in the international	application	
Box No. VIII	Certain observations on the interna	itional application	
Date of submission of the	demand	Date of completion of t	this report
11.11.2005		10.05.2006	
Name and mailing address	s of the international	Authorized officer	Sixed at Palencary.
preliminary examining au European	thority: Patent Office	Rosenberger, J	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000061

	Box	(No. I Basis of the report		
1.		n regard to the language, this report is based on		
	Ø	the international application in the language in which it was filed		
		a translation of the international application into , which is the language of a translation furnished for the purposes of: international search (under Rules 12.3(a) and 23.1(b)) publication of the international application (under Rule 12.4(a)) international preliminary examination (under Rules 55.2(a) and/or 55.3(a))		
2.	 With regard to the elements' of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): 			
	Description, Pages			
	1-8	as originally filed		
	Cla	nims, Numbers		
	1-1	1 as originally filed		
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing		
3		The amendments have resulted in the cancellation of:		
_		 ☐ the description, pages ☐ the claims, Nos. ☐ the drawings, sheets/figs ☐ the sequence listing (specify): ☐ any table(s) related to sequence listing (specify): 		
4	. 🗆 ha Si	This report has been established as if (some of) the amendments annexed to this report and listed below and not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the applemental Box (Rule 70.2(c)).		
		 □ the description, pages □ the claims, Nos. □ the drawings, sheets/figs □ the sequence listing (specify): □ any table(s) related to sequence listing (specify): 		
	*	If item 4 applies, some or all of these sheets may be marked "superseded."		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/IB2005/000061

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

3

No: Claims

1,4-11

Inventive step (IS)

Yes: Claims

No: Claims

1-11

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

PCT/IB2005/000061

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. The following document is cited from the examiners knowledge:

D3: US 5 024 680 A

2. The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of claims 1,2 and 4-11 is not new in the sense of Article 33(2) PCT for the following reasons:

Document D3 discloses in claim 1 a diamond grit comprising diamond particles coated with an inner layer of chromium carbide and an outer layer of a metal deposited on the inner layer. In example 1 the material of the outer layer is tungsten. According to claim 13 the outer tungsten layer can be deposited by physical vapour deposition.

The subject-matter of claims 1,2 and 4-11 is thus not new compared with D3.

- 3. The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of claim 3 does not involve an inventive step in the sense of Article 33(3) PCT for the following reasons:
- 3.2 Replacing the metals for the outer coating disclosed in D3 by the specific alloys of present claim 3 can only be regarded as inventive, if this selection leads to an unexpected technical effect. However, no such effect is indicated in the application. Hence, no inventive step is present in the subject-matter of claim 3 over the disclosure of D3.